



DVR5100 Series Digital Video Recorder



C1696M (8/06)

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About the DVR5100 Series Digital Video Recorder

The DVR5100 Series digital video recorder (DVR) is stand-alone or Endura-enabled, high-performance 4, 8, or 16 channel DVR. The DVR5100 combines superior forensic functions, easy-to-use interfaces, and video recording performance previously reserved for extremely high-end systems. Digital video recorders designed for forensic applications must record video at high resolutions to capture exceptional detail and quality required for investigative work. The DVR5100 captures video at up to 704 x 480 pixels (NTSC) or 704 x 576 pixels (PAL) at 30 ips (NTSC) or 25 ips (PAL), providing the investigator with essential details.

The DVR5100's remarkable performance is enhanced by the use of the EnduraStor™ storage optimization technology. EnduraStor allows video recorded at higher frame rates to be reduced to 2 ips after a predetermined period of time, saving valuable hard disk drive space. EnduraStor, combined with powerful motion detection capabilities and programmable recording schedules, allows the user to customize the performance of the DVR5100 and optimize the required storage capacity.

A user-supplied USB keyboard can be connected to a DVR5100 USB port to configure the DVR5100 settings quickly and easily. Convenient front panel controls with integrated joystick, jog, and shuttle, combined with an intuitive and simple graphical user interface (GUI), make using the DVR easy and effortless. The front panel controls allow operation of Pelco PTZ cameras through Coaxitron®, D, or P protocol. An innovative single-key export feature simplifies the exporting of video.

Flexible view options allow users to optimize the DVR for their particular application requirements. Video can be displayed on NTSC/PAL composite, NTSC/PAL S-video, or VGA monitors. The main monitor can display one, four, nine, or sixteen images. Live and playback video can be combined on the same screen. In addition, a programmable spot monitor provides a sequencing display on a composite monitor.

The DVR5100 uses Internet Protocol-based networking for remote accessibility and control of the DVR. All connections are made over a secure and encrypted VPN session. For local area networks, the DVR5100's 1 gigabit network port supports its impressive performance.

With a maximum recording speed of 30 images (NTSC) or 25 images (PAL) per camera per second at 4CIF resolution, the DVR5100 shatters previous performance marks and establishes the best value in the industry for forensic digital video recorders. The combination of enterprise class recording capabilities, ample internal storage, remote accessibility, and the reliability and assurance found in Pelco products makes this the ideal DVR for unmanaged video surveillance applications typical of the retail, banking, education, and medical industries.

The DVR5100 can operate as a stand-alone or networked device. If the DVR5100 is going to be included in an existing network, always include your network administrator when planning and installing the DVR5100.

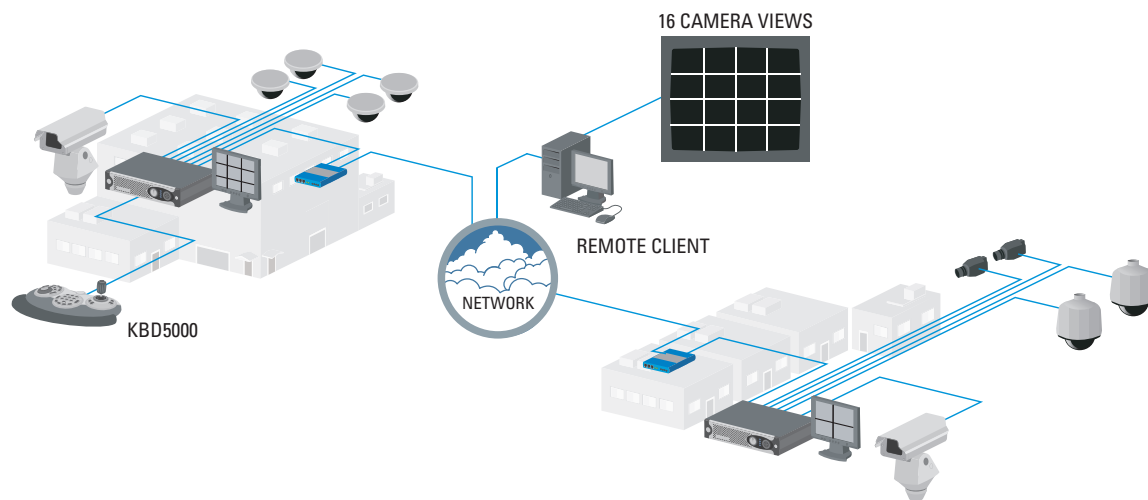


Figure 1. DVR5100 Network Diagram

Getting Started

This manual describes how to operate the DVR5100 to view and record live video, search for recorded video and mark it or lock it for future use, and to operate or adjust cameras. For information about installing and configuring the unit, refer to the installation manual.

The DVR5100 provides access to most of the functionality needed for day-to-day operations along with basic monitor setup options. For access to advanced setup or configuration, use the DVR5100 remote client application. The DVR5100 Series DVR is available in several configurations. For a description of the available models, refer to the DVR5100 Product Specification.

Starting and Stopping the DVR5100

When you start the DVR5100, a login dialog box automatically appears in the center of the screen (Figure 2). The following default user names and passwords are available for the DVR5100:

The following default user names and passwords are available for the DVR5100:

Table A. Default User IDs and Passwords

User ID	Password
admin	admin or 23646
manager	manager or 6262437
operator	operator or 67372867
guest	guest or 48378

Each time you start the DVR5100, you should choose the user name that is assigned a role that provides you with access to the features that you will need. By default each user has access to the following features:

- **admin:** This user is assigned the Administrator role which provides full access to all of the DVR5100 features. The Administrator has full access rights and is the only user level with permission to modify every option and value in the Setup page.
- **manager:** This user is assigned the Manager role which provides access to the same features available to the Operator role, with the addition of being able to export and view all of the Setup windows.
- **operator:** This user is assigned the Operator role which lets you monitor live video and audio, reposition PTZ cameras, respond to alarms, run scripts, activate relays, search for video, play it back, lock clips, and capture snapshots.
- **guest:** This user is assigned the Guest role which lets you monitor live video and audio, change layouts, and reposition PTZ cameras.

Contact your DVR5100 system administrator to set up additional users and roles and if you forget a password or need to change a password.

To log on to the DVR5100:

TIP: You can use an optional KBD5000 keyboard or a USB PC keyboard and mouse to perform some setup tasks more easily. Refer to *Understanding DVR Controls and Menus* on page 13 for a comparison on using any of these devices to work with the on-screen menus.

1. Start the DVR5100 by momentarily pressing the power button. The DVR5100 starts, displays the login dialog box, and flashes the Control Pad Menu button.

WARNING: Pressing and holding the power button for five seconds shuts down the unit. Do not shut down the unit by pressing and holding the power button. To avoid data loss or data corruption, always follow the procedures in *Shutting Down the DVR5100* on page 11 to shut down the unit.

2. In the User Name list, turn the jog (inner dial) on the Control Pad to select the user name.

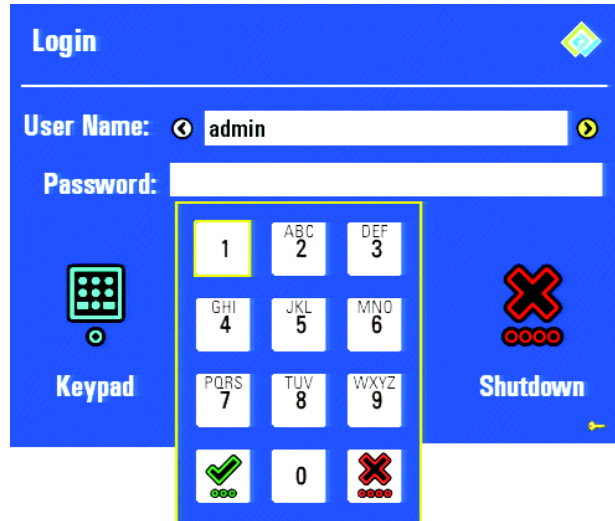







Figure 2. Login Dialog Box With On-Screen Keyboard

3. To enter the password, do the following:
 - a. On the Control Pad, press . The on-screen keyboard appears. (Figure 2)
 - b. Use the joystick to navigate to the first number your password, and then press Enter/Shift  on the Control Pad.
 - c. Repeat these steps until you have entered the entire password.
 - d. Press  to accept the password, or press  to cancel the password and return to the Login dialog box.
4. From the Login dialog box, press  to accept the user name and password. If the password is correct, the DVR5100 displays the main application window. If the password is incorrect, follow the instructions below to re-enter your password.

RE-ENTERING LOGIN INFORMATION






If you enter an incorrect password on the Login dialog box, a message appears asking you to try again.



Figure 3. Retry Login Dialog Box

To re-enter your login information:

TIP: You can use an optional KBD5000 keyboard or a USB PC keyboard and mouse to perform some setup tasks more easily. Refer to *Understanding DVR Controls and Menus* on page 13 for a comparison on using any of these devices to work with the on-screen menus.

1. Verify that the user name is correct, and then select a different user name if necessary.
2. To re-enter the password, do the following:
 - a. On the Control Pad, press . The on-screen keyboard appears. (Figure 2)
 - b. Use the joystick to navigate to the first number your password, and then press Enter/Shift  on the Control Pad.
 - c. Repeat these steps until you have entered the entire password.
 - d. Press  to accept the password, or press  to cancel the password and return to the Login dialog box.
3. From the Login dialog box, press  to accept the user name and password. If the password is correct, the DVR5100 displays the main application window.
4. If re-entering your user name and password fails to start the application, contact your system administrator to verify that the user name and password are still valid.

SHUTTING DOWN THE DVR5100

WARNING: Do not shut down the DVR5100 by turning off the power. Doing so can cause data loss or can corrupt the database. Always follow the procedures in this section to turn off the unit.

To shut down the DVR5100:

TIP: You can use an optional KBD5000 keyboard or a USB PC keyboard and mouse to perform some setup tasks more easily. Refer to *Understanding DVR Controls and Menus* on page 13 for a comparison on using any of these devices to work with the on-screen menus.

1. Press the Menu button  to display the main menu.



Figure 4. Selecting Logout From the Main Menu

- From the main menu, select the Logout icon. The Login dialog box appears.

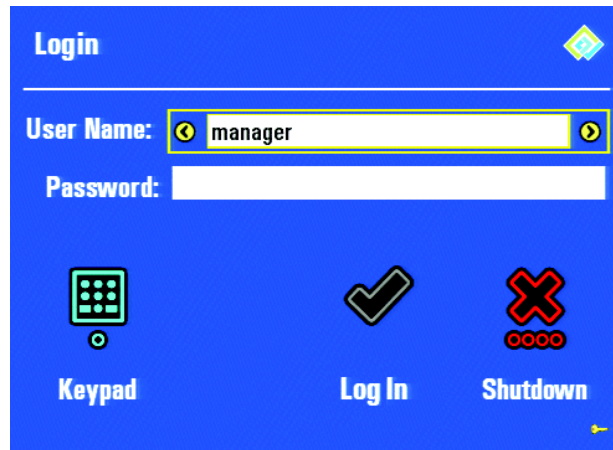





Figure 5. Login Dialog Box

- Select a user name, and then enter your password. You must select a user name that has administrator permissions.
- Press the red function key , or navigate to Shutdown , and then press Enter/Shift . The DVR5100 saves all configuration information and recorded video and then shuts down.

LOGGING OUT

You can log out of the system without shutting down the unit. Doing so avoids unauthorized access to the unit by someone who does not have a user name and password.

To log out:

TIP: You can use an optional KBD5000 keyboard or a USB PC keyboard and mouse to perform some setup tasks more easily. Refer to *Understanding DVR Controls and Menus* on page 13 for a comparison on using any of these devices to work with the on-screen menus.



- From the main menu, select the Logout icon .



Figure 6. Logging Out

- Press Enter/Shift  to accept the selection. The Login dialog box appears, and the system closes your worksession. Note that the Login dialog box remains on the screen. You or another operator can log back on to the system from this dialog box.

Understanding DVR Controls and Menus

This section provides an overview of DVR5100 front panel controls and menus. The DVR5100 is a menu-driven DVR. You can operate the DVR5100 using any of the following:

- **DVR5100 Control Pad:** The DVR5100 provides front panel controls that allow you to local access to the menu system. You can configure and operate the DVR5100 using front panel controls. Refer to DVR5100 Control Pad on page 14 for a description of each key on the Control Pad.
- **Optional KBD5000 keyboard:** The DVR5100 supports the KBD5000 keyboard. Refer to Navigating Through Menus with the KBD5000 Keyboard on page 16 for a description of each key on the KBD5000 keyboard with the DVR5100.
- **Optional PC USB keyboard and mouse:** The DVR5100 provides three USB ports, which can be used to connect an optional PC keyboard and mouse. Refer to Navigating Through Menus with a PC Keyboard and Mouse on page 18 for a description of using a PC keyboard and mouse with the DVR5100.
- **DVR5100 Remote Client:** The DVR5100 allows you to use the DVR5100 Remote Client application to access the DVR5100 over the network. The DVR5100 Remote Client application allows you access to advanced DVR5100 features and functionality. Refer to the DVR5100 Remote Client Operation Manual for more information.

FRONT PANEL INDICATORS

The following figure shows the DVR5100 front panel.

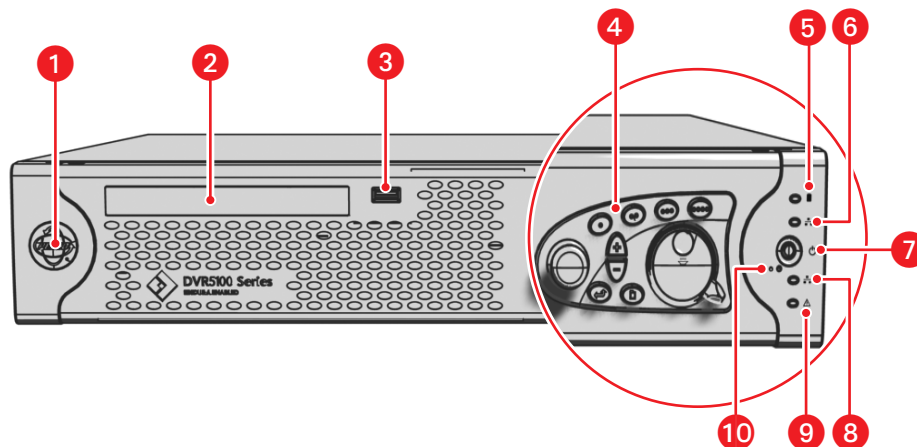


Figure 7. DVR5100 Front Panel Indicators

The front panel of the DVR5100 contains the following controls and indicators:

Table B. Features of the DVR5100 Front Panel







1	Pelco badge (power indicator)  : The Pelco badge, on the left side of the unit, glows blue when the unit has power. Behind the front bezel, the power indicator LED is white.
2	DVD: DVD drive that allows you to import/export video to and from the DVR and load install DVR software updates.
3	USB port: Version 2.0 USB port.
4	Control pad: Controls the basic operations of the unit. For information about the Control Pad, refer to DVR5100 Control Pad on page 14.
5	Hard disk drive indicator  : The hard disk drive (HDD) status indicator flashes yellow when there is HDD activity.
6	Network activity indicator  : The activity indicator flashes green when the unit is sending or receiving network data.
7	Power key  : Use the power key to turn the unit on and off.

Table B. Features of the DVR5100 Front Panel (Continued)

8	Network status indicator  : The network status LED indicates the network connection and speed. It may display one of the following conditions: <ul style="list-style-type: none"> Off: The unit is not connected to the network. Solid Green: The unit is connected to the network using the 1000BaseT standard. Solid Yellow: The unit is connected to the network using the 100BaseT standard. Solid Red: The unit is connected to the network using the 10BaseT standard.
9	Unit status indicator  : The unit status is indicated by one of the following three colors: <ul style="list-style-type: none"> Green: The unit is functioning normally. Yellow: The unit is in configuration mode. Red: The unit is in an error condition.
10	The Configuration/Reset key on the front panel is reserved for future use.

DVR5100 CONTROL PAD

The DVR5100 Control Pad allow you to configure and operate the DVR.

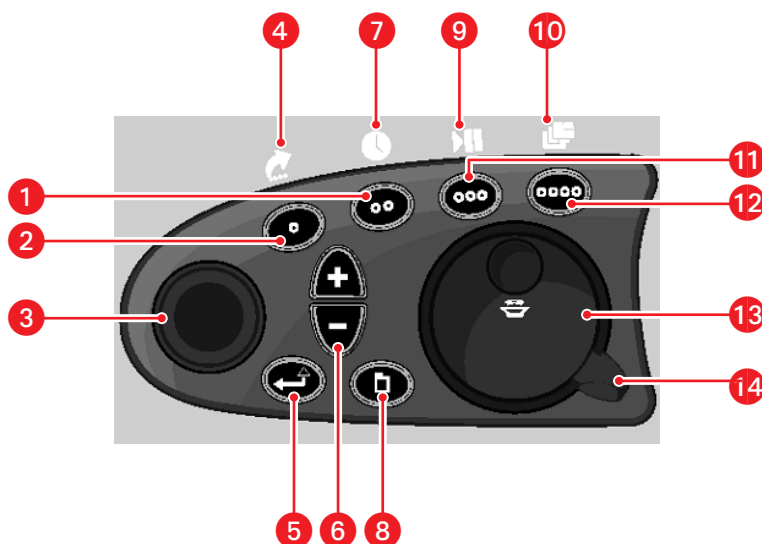


Figure 8. DVR5100 Control Pad

The Control Pad contains the following keys and functions.

Table C. DVR5100 Control Pad Functions

























1	 Yellow function key: <ul style="list-style-type: none"> When on-screen menus are displayed, pressing the yellow key selects the yellow menu item. When on-screen menus are not displayed, pressing this key switches the DVR mode to live view.
2	 Blue function key: <ul style="list-style-type: none"> At the Login dialog box, pressing this key displays the Keypad. When on-screen menus are displayed, pressing this key selects the blue menu item. When on-screen menus are not displayed, pressing this key displays the Quick Export dialog box.
3	 Joystick: The joystick navigates to a video pane, menu item, or field. In PTZ mode, controls pan and tilt.

Table C. DVR5100 Control Pad Functions (Continued)

4	 Quick export label: Indicates the function of this key when on-screen menus are not displayed.
5	 Enter/Shift: The Enter/Shift key selects menu items when menus are visible. Press and release the key to enter or exit PTZ mode, which is indicated by a blue border around the video pane. Press and hold the key to adjust volume.
6	 Plus (+)/Minus (–) keys: Plus  / Minus  keys perform multiple actions and work in combination with the Enter/Shift key. <ul style="list-style-type: none"> • Viewing live video: The Plus key  displays the next camera in the sequence in the currently selected video pane. The Minus key  selects the previous camera. • PTZ mode: The Plus key  zooms in. The Minus key  zooms out. • In a menu dialog box: The Plus key  increases the value of a number field. The Minus key  decreases the value of a number field. • With Enter/Shift key: The Plus key  advances to the next camera page (for example, in 2x2 or quad view mode, it shows the next four cameras). The Minus key  returns to the previous camera page (for example, in 2x2 or quad view mode, it shows the previous four cameras).
7	 Go to live label: Indicates function of this key when on-screen menus are not displayed.
8	 Menu: The Menu key shows or hides on-screen menus.
9	 Play/pause label: Indicates function of this key when on-screen menus are not displayed.
10	 Change layout label: Indicates function of this key when on-screen menus are not displayed.
11	 Green function key: <ul style="list-style-type: none"> • If the Keypad is displayed, pressing the green key closes the Keypad and selects the Password field. Pressing the green key a second time logs on the user to the DVR5100 if the password was correct. • When on-screen menus are displayed, pressing the green key selects the green menu item. • When on-screen menus are not displayed, pressing this key toggles the DVR mode between play and pause.
12	 Red function key: <ul style="list-style-type: none"> • If the Keypad is displayed, pressing the red key closes the Keypad, deletes the contents in the Password field, and selects the User Name field. • When on-screen menus are displayed, pressing the red key selects the red menu item. • When on-screen menus are not displayed, pressing this key repeatedly changes the video view from the single, 2x2, 3x3, and 4x4 display layouts.
13	 Jog control: The jog control performs the following functions: <ul style="list-style-type: none"> • Frame-by-frame action: Turn the jog counterclockwise to rewind. Turn the jog clockwise to advance. • With Enter/Shift key: Turn the jog counterclockwise to lower volume. Turn the jog clockwise to increase volume.
14	 Jog shuttle: Turn the jog shuttle counterclockwise for fast rewind, clockwise for fast forward. To increase speed, turn it several times.












NAVIGATING THROUGH MENUS WITH THE KBD5000 KEYBOARD

The KBD5000 keyboard controls serve different purposes depending on which part of the menus you are using. The keys light up to indicate which controls are available based on your currently active operation. If a key is not lit, that control is not currently available.

ACTIVATING ON-SCREEN MENUS

When you want to activate on-screen menus, you can use the keys on the KBD5000. The menu operations are described in the following table:

Table D. KBD5000 Menu Operations

Joystick Module	
Key	Menu Operations
	Joystick: Moves left and right through the main menu, between tabs on the configuration screens, moves between items in a dialog box, expands lists like the Devices list on the Devices tab of the Configuration screen.
	Joystick trigger: Selects menu items. Performs the same actions as the Enter/Shift key  on the DVR5100 Control Pad.
	Help key: Displays or hides context-sensitive help for the KBD5000 keyboard.
Keypad Module	
Key	Menu Operations
	Alphanumeric keypad: The keys on the alphanumeric keypad are not used. You must enter text from the on-screen keyboard.
	Camera selection key: Displays the Select Cameras dialog box with list of cameras.
	Monitor selection key: This key is not used.
Jog/Shuttle Module	
Key	Menu Operations
	Shuttle (outer ring): Backs up to a higher-level menu. Expands a level in a hierarchy.
	Jog (inner dial): Moves up and down through a list.
	Color-coded function keys: Selects one of the on-screen menu options. Keys are context sensitive.
	Menu selection key: Shows or hides the previously displayed DVR5100 menu.

ACTIVATING LIVE AND PLAYBACK CONTROLS

After you select a video pane, you can work with the live or recorded video, operate pan and tilt commands, or initiate other camera-specific actions with the KBD5000 keys. The menu operations are described in the following table:

Table E. KBD5000 Live and Playback Operations


















Joystick Module	
Key	Live and Playback Operations
	Joystick: Navigates up and down, left and right across the monitor and across menus. Controls PTZ. Adjusts focus and iris: turn the handle right to focus closer or open the iris; turn it left to focus farther or close the iris.
	Joystick trigger: Places the currently selected video pane into PTZ mode. Pressing it again removes the PTZ mode.
	Help key: Displays or hides context-sensitive help about the KBD5000 keyboard.
	Aux key: Activates the wiper command.
	Iris key: Displays the dialog for adjusting iris on the currently selected camera.
	Focus key: Displays the dialog for adjusting focus on the currently selected camera.
Keypad Module	
Key	Live and Playback Operations
	Alphanumeric keypad: The keys on the keypad are not used by the DVR5100. You must enter text from the on-screen keyboard.
	Camera selection key: Displays the Select Camera dialog box with a list of cameras.
	Monitor selection key: This key is not used.
	Multiple view keys: Switches the monitor display to view 1, 4, 9, or 16 images.

Table E. KBD5000 Live and Playback Operations (Continued)

Jog/Shuttle Module	
Key	Live and Playback Operations
	Menu selection key: Shows or hides the main menu.
	Shuttle (outer ring): Performs fast rewind when moved to the left. Performs fast forward when moved to the right. When a sub-menu is displayed, turning the shuttle to the left returns you to the main menu.
	Jog (inner dial): Performs slow rewind when moved to the left. Performs slow forward when moved to the right.
	Color-coded function keys: Selects one of the options available on a menu.
	Play/pause video key: Plays or pauses recorded video.
	Record video key: Records video for export. While recording, pressing this key marks the video with a yellow bar.
	Live/playback mode key: Stops playback and returns to live video for the currently selected camera.

NAVIGATING THROUGH MENUS WITH A PC KEYBOARD AND MOUSE

You can attach a USB PC keyboard and mouse to the DVR5100 in addition to using the control pad to navigate through menus. The keyboard and mouse operations are described in the following table:

Table F. USB PC Keyboard and Mouse Operations


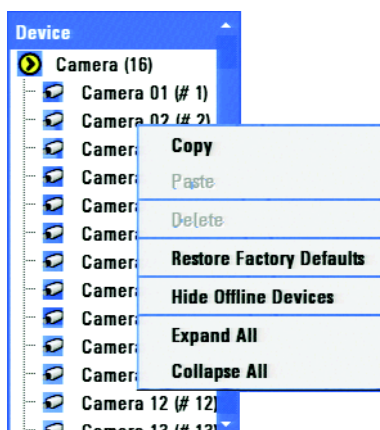
USB PC Keyboard	
Key	Menu Operations
Enter	Selects a menu item. Performs the same actions as the Enter/Shift key  on the DVR5100 Control Pad.
F1 - F4	Perform the same actions as the four color-coded function keys on the DVR5100 Control Pad.
F5 - F8	Changes the screen layout from the single, 2x2, 3x3, and 4x4 display layouts respectively.
F9	Displays the Camera Selection dialog box.
Tab or Shift + Tab	Moves to the next field or tab on a menu, or selects the next command on a dialog box or screen. Press Shift+Tab to move to the previous field or tab on a menu.
Esc (Escape)	Closes a menu.
Shift + (Plus)	In live view mode, displays the next camera in the currently selected video pane. In PTZ mode, zooms in on the scene. In the menus, expands the device tree or increases a number in a text field. While viewing recorded video, advances the video one frame at a time.
- (Minus)	In live view mode, displays the previous camera in the currently selected video pane. In PTZ mode, zooms out of the scene. In the menus, closes the device tree or decreases a number in a text field. While viewing recorded video, reverses the video one frame at a time.
Down or Up Arrow	In PTZ mode, tilts the currently selected camera down or up. In the menus, selects the next or previous entry in a list on a menu or dialog box.
Ctrl + Down Arrow/ Ctrl + Up Arrow	In the menus, increases or decreases the number in a field, or selects the next or previous entry in a list.

Table F. USB PC Keyboard and Mouse Operations (Continued)

Right or Left Arrow	In PTZ mode, pans the currently selected camera right or left. In the menus, moves to the next or previous field on a menu or dialog box.
Ctrl + Right Arrow/ Ctrl + Left Arrow	Increases or decreases the audio volume.
Page Up or Page Down	Scrolls forward or backward through the timeline on the Quick Search dialog box, or selects the next or previous entry in a list on a menu or dialog box.
Backspace	Returns to the previous menu; performs the same action as turning the shuttle counterclockwise.
Alphanumeric keypad	Use any alphanumeric key on the keyboard to enter information in a text field such as a password, IP address, comment or other field. Do not enter characters that are not valid for the currently selected field. Refer to the specific instructions for the field for guidelines on valid entries. See the descriptions in this table for additional functions for specific characters.
<	Plays recorded video backwards.
>	Plays recorded video forwards.
L	Switches the currently selected video pane to live view mode.
M	Displays the main menu.
P	In live view mode, plays or pauses the video in the currently selected video pane.
R	In live view mode, starts recording video in the currently selected video pane.
S	Displays the Quick Search dialog box for the currently selected video pane.
X	Opens the Quick Export dialog box.
Z	Switch to PTZ mode.
USB Mouse	
Left-Click	Selects a menu icon, text field, or check box; executes a command key; and displays the next tab on a configuration screen. Point and click on an up or down arrow next to a text field to increase or decrease the number or to select the next or previous entry in a list.
Right-Click	Displays a shortcut menu if one is available. For example, right-click the device list on the Devices tab to display a shortcut menu from which you can copy or paste device settings, delete a selected device, hide offline devices from the list, restore factory defaults, and expand or collapse the device tree.

**Figure 9. Shortcut Menu Accessible From a Mouse**

Overview of Navigation and Controls

The DVR5100 Series DVR provides semitransparent on-screen menus that allow you to adjust settings while continuing to monitor live video. The DVR5100 Control Pad offers a quick and convenient set of local controls that allow you to configure and operate the DVR.

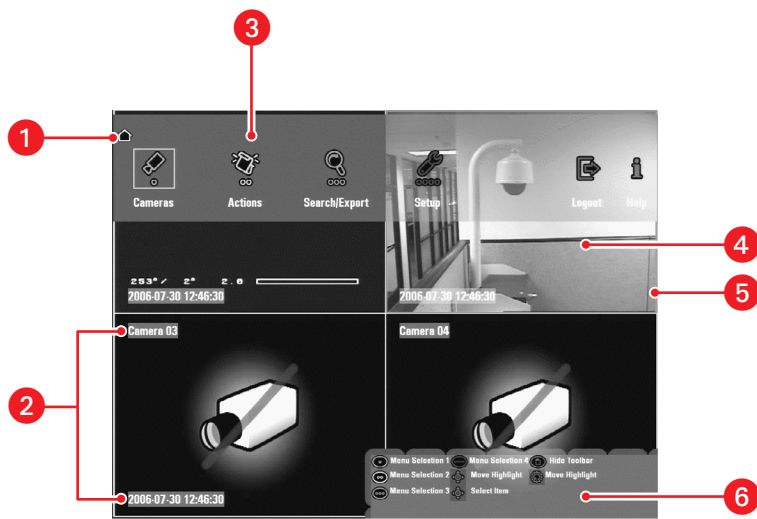


Figure 10. DVR5100 Main Window

The DVR5100 application window contains the following elements:

1	Icon path: Orients you to your location in the menu hierarchy.
2	Camera information: Displays the camera name and the date and time where that camera is located.
3	On-screen menus: Provide access to all operational functions through a hierarchical set of four-option menus. Large, color-coded icons make it easy to view and make your selections.
4	Video pane: Displays video, either live from a camera or recorded from the hard disk of the unit. Displays up to 16 video streams at one time, in any combination of live and recorded video.
5	Video pane border: Indicates status. Bright green indicates the currently active video pane. Red indicates that manual recording is in progress. Yellow indicates that recorded video is being played back. Blue indicates that PTZ controls are active.
6	Context-sensitive help: Describes how to use the currently active function from the KBD5000 or how to use the front panel controls on the DVR5100. Note that a different set of online help information appears depending on how you display the help. To view the online help about the KBD5000, press the Help button on the keyboard. To display online help about the front panel controls, select the Help icon from the main menu of the DVR5100. Figure 10 illustrates the online help for the KBD5000.

DISPLAYING AND HIDING THE SYSTEM MENUS

Press the Menu key  to display and hide the on-screen menus.

The first time you display the menus, the DVR5100 displays the main menu. If you navigate to a lower-level menu and then close the menu display, the DVR5100 retains that information and returns you to the same menu the next time you press the Menu key. To hide an on-screen menu, press the Menu key again.



Figure 11. DVR5100 Main Menu



NAVIGATING TO AND SELECTING A MENU ITEM

There are three ways to navigate within a menu and select an item:

- Use the joystick to move between the on-screen icons.
- Press a function key that is identical in color to a menu item.
- Turn the jog (inner dial) of the jog/shuttle to move across a menu or up and down a list.

JOYSTICK

To navigate to and select a menu item:

1. Move the joystick left or right to a menu item. The yellow cursor denotes the highlighted menu item.
2. Press the Enter/Shift key  to select the highlighted menu item. To return to a previous menu, move the joystick to the on-screen Back icon , and then press the Enter/Shift key.

FUNCTION KEYS ON THE CONTROL PAD

The DVR5100 Control Pad contains four color-lit function keys. The color of each key corresponds to the color of its icons displayed on the monitors linked to the DVR5100. This color-matching design lets you navigate the on-screen menus without looking down to read keyboard text labels. The colors always appear in the same order from left to right: blue, yellow, green, and red.





Figure 12. Control Pad Color-Coded Function Keys

To navigate through the different levels in menus or to select an item:

1. Press the color-coded function key that corresponds to the on-screen menu item. For example, to select the blue icon on the screen, press the blue function key on the front panel of the DVR5100.
2. To return to a previous menu, turn the jog shuttle to the left. After you make a selection, the DVR5100 presents a menu or displays a dialog.

USING THE JOG/SHUTTLE TO NAVIGATE THROUGH MENUS

There are two ways to return to a previous, or higher level, menu:

- Turn the jog (inner dial) to the right or left until you select the Back icon  on the screen, and then press the Enter/Shift key .
- Turn the shuttle (outer ring) counterclockwise.

The icon path at the top of the menu bar tells you which menu icons you selected to arrive at your current location. This lets you know how deep within the menu structure you are and how many levels there are to reach the main menu. Most functions are no more than one or two levels deep. For example, in the figure below, you would need to return one level to reach the main menu from the Search/Export menu.

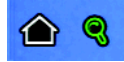



Figure 13. Sample Icon Path

USING THE CONTROL PAD TO ENTER CHARACTERS

The DVR5100 can be configured and operated from the Control Pad, KBD5000 keyboard, USB PC keyboard, and Remote Client. This section describes how to use the DVR5100 Control Pad to enter characters in text fields.

To enter characters using the Control Pad:

1. Select a field that supports character entry, for example a name field or IP address field.
2. Press the blue function key  to display the on-screen keyboard.

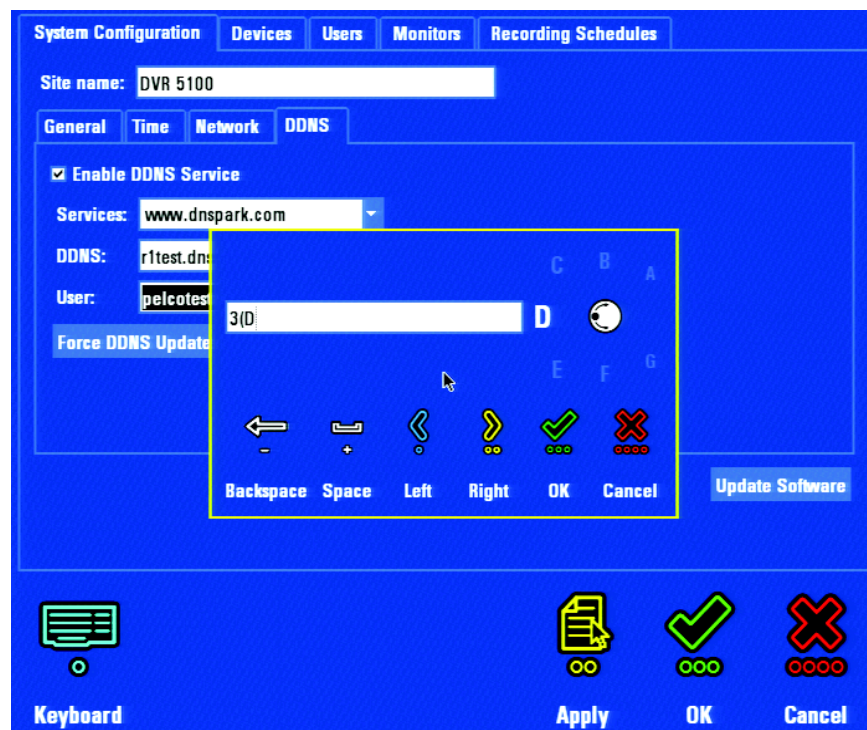





Figure 14. On-Screen Keyboard

3. Enter characters by pressing the following keys:

- Turn the jog to the right or left to select a character of the name or IP address that you are entering.
- Use the joystick, blue function key, or yellow function key to move between characters within the text field.
- Use the jog/shuttle to move slowly or quickly through the list of characters.
- Press the Minus key  to delete the previous character.
- Press the Plus key  to insert a space.
- Press the Shift/Enter  key to accept the currently selected command and return to navigating between fields on the Setup tab.
- Press the green function key to accept a completed entry.
- Press the red function key to cancel an entry and return to the previous dialog.

NOTE: You can use masks to select the set of characters appropriate for some text fields (e.g. 1–255 for IP addresses, A–Z, numbers, and special characters for names).

SHOWING AND HIDING ONLINE HELP INFORMATION


For help with the system or to view system status, select the on-screen Help icon  , and then press the blue function key to display online help, or press the yellow function key to display system status.



Figure 15. Help Menu

If you choose to display online help, the following screen appears. Pressing any key hides this screen.

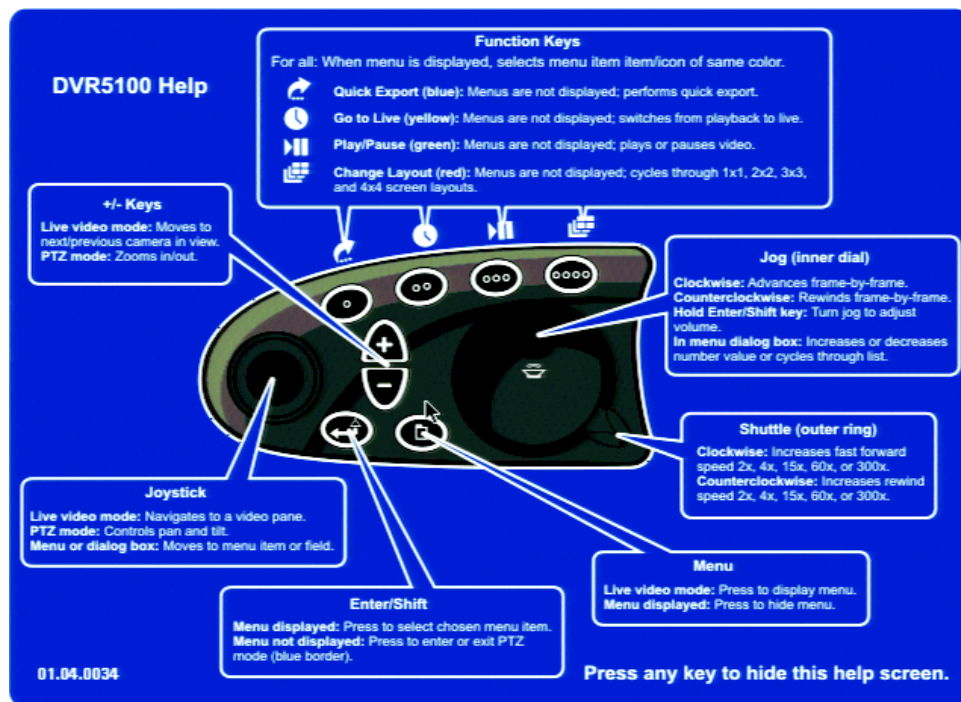


Figure 16. Online Help for the Control Pad

On-Screen Menus

The DVR5100 Series DVR on-screen menu hierarchy is designed to present only those menus for which you have permission. Depending on your user role, you might see all available menus or only a few of the menus. There are user roles for an administrator, manager, operator, and guest. The descriptions of menus in this section are based on the administrator role, which has access to all menus and functions. If you do not see a menu to which you think you should have access, contact your system administrator to change the permissions for your user ID.

DVR5100 MAIN MENU

The main menu of the DVR5100 provides access to all daily operational functions. It is organized into four menus from which all other functions are available.



Figure 17. DVR5100 Main Menu

CAMERAS MENU

The Cameras menu contains options that are related to selecting cameras to view in video panes. It also contains options for setting up and adjusting cameras with the Focus and Iris commands, and for reviewing camera properties from the Camera Menu.

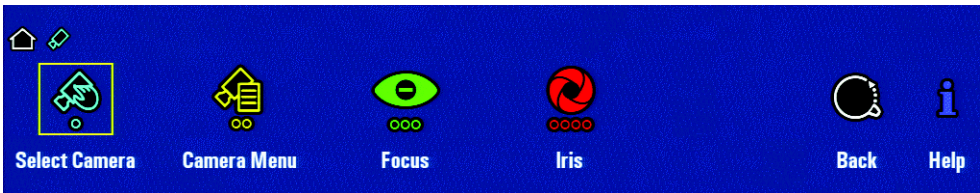


Figure 18. Cameras Menu

ACTIONS MENU

The Actions menu contains options for running scripts and relays on selected devices. To create scripts or relays, log on to a DVR5100 Remote Client application. You can also control PTZ operations or auxiliary operations such running a wiper on compatible cameras.



Figure 19. Actions Menu

SEARCH/EXPORT MENU

The Search/Export menu contains options for locating and reviewing recorded video and for exporting snapshots and recorded video. To export video you must have a CD or DVD available. To export snapshots, you must have a USB storage device attached to the DVR5100 or to the KBD5000.

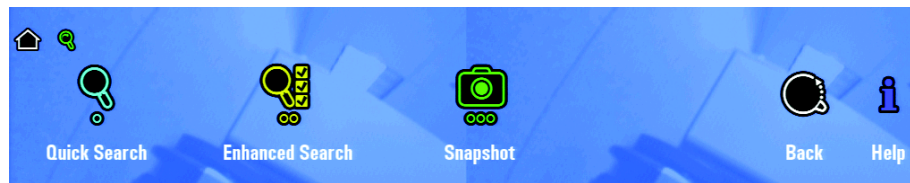


Figure 20. Search Export Menu

SETUP WINDOW

If you have permissions to do so, you can view or modify setup information for the DVR5100. The Setup window contains options for configuring the following settings: System Configuration, Devices, Users, Monitors, and Recording Schedules. To set up roles, scripts, and events you must log on to the DVR5100 Remote Client application.

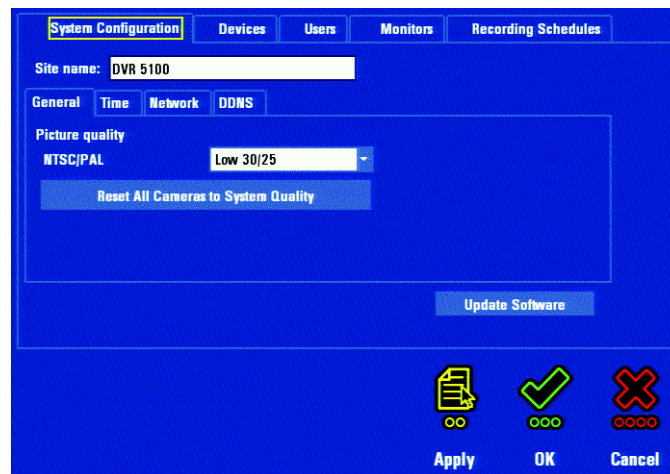


Figure 21. Setup Window

Operating the DVR5100

The DVR5100 Control Pad provides access to most DVR5100 features and functionality. The DVR5100 Remote Client application is required to configure certain options accessible to the DVR5100. For example, scripts are created using the Remote Client, but are operated on the DVR5100 from the Control Pad. An optional KBD5000 keyboard or USB PC keyboard and mouse also can be used to operate the DVR5100 instead of the Control Pad. The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you any of these devices.


Monitoring Live Video

The DVR5100 starts up in live video mode. The following sections describe how to work in the live view mode:


- *Selecting a Video Pane*, below
- *Changing Screen Layout*, below
- *Viewing a Specific Camera* on page 27
- *Moving Through the Camera Sequence* on page 28
- *Working With Cameras* on page 29





SELECTING A VIDEO PANE

When you start the unit and are displaying a layout with several video panes, the upper left video pane is selected by default. To select a different video pane, use the joystick to move left, right, up, and down on the monitor. The border of the currently selected video pane changes color to reflect the current operating state of the DVR5100.

- **Green:** Indicates the currently selected video pane.
- **Yellow:** Indicates that recorded video is being displayed in the video pane.
- **Blue:** Indicates that PTZ mode has been enabled in the video pane. Press Enter/Shift  to enable PTZ mode. Refer to *Repositioning a Camera With PTZ Capabilities* on page 32 for more information about working with PTZ cameras.
- **Red:** Indicates that manual recording is in progress in the video pane.

CHANGING SCREEN LAYOUT

Press the red function key  on the Panel Keypad to display any of the four screen layouts. Each time you press the this key, the screen layout changes to one of the following layouts:

-  **Full-screen view (1x1):** Displays a single video pane.
-  **Four-camera view (2x2):** Displays four video panes in rows of two.
-  **Nine-camera view (3x3):** Displays nine video panes in rows of three.
-  **Sixteen-Camera view (4x4):** Displays 16 video panes in rows of four.

VIEWING A SPECIFIC CAMERA

When you select a camera, its video stream is sent to the video pane with the green border. For example, if your display is set to a 2x2 layout and the upper left video pane is selected, you can select any camera to display in this video pane. Follow the instructions below to display video for a specific camera in any video pane or to display a specific camera and switch to full-screen mode.

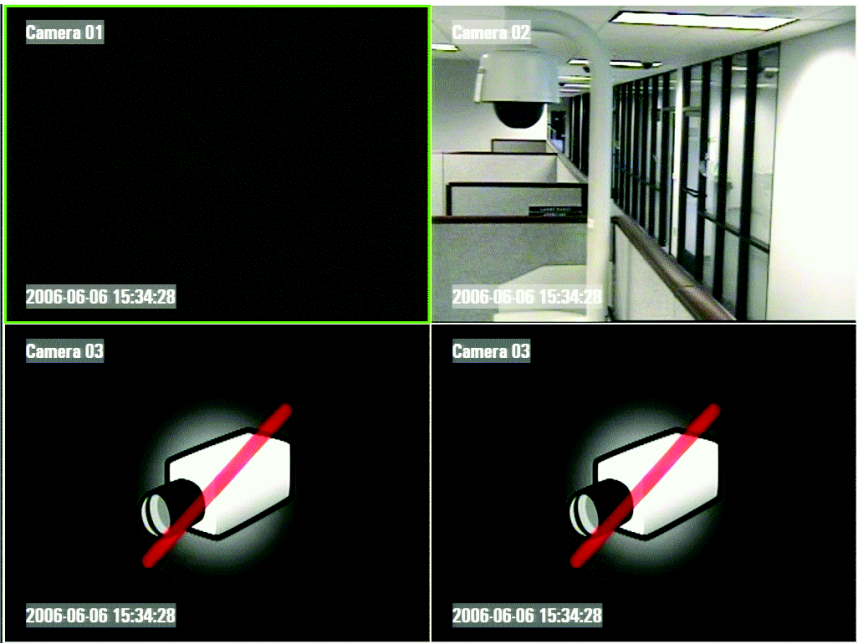



Figure 22. Displaying Video in a 2x2 Mode

To view a camera in a specific video pane:

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

1. In the live video mode, use the joystick to navigate to the selected video pane. A green border surrounds the video pane.
2. On the Panel Keypad, press Menu . The DVR5100 menu appears. The DVR5100 will display the last menu that was opened. In the figure below, the main menu is shown.

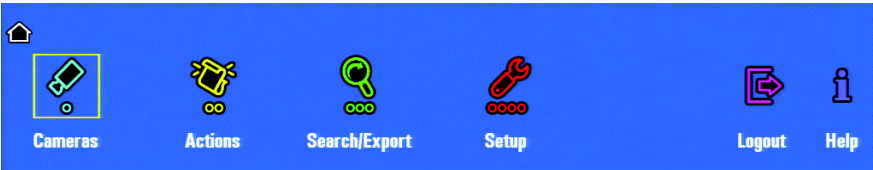



Figure 23. Main Menu

3. Use the joystick or jog (inner dial) to navigate to the Cameras icon, and then press Enter/Shift . The Camera menu appears.

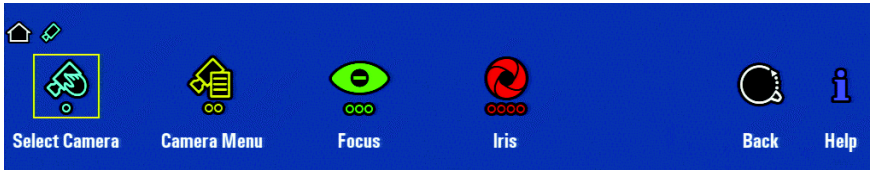



Figure 24. Camera Menu

- If it is not already selected, navigate to the Select Camera icon, and then press Enter/Shift . The Camera List appears.

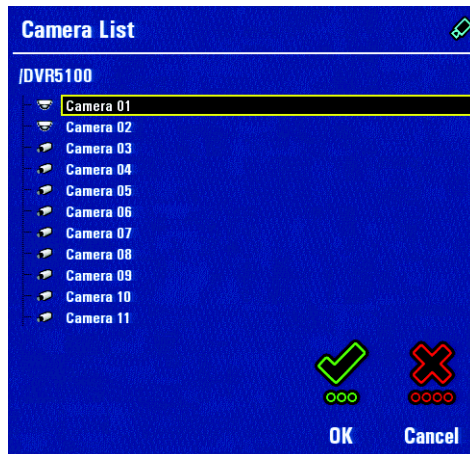




Figure 25. Camera List

- Use the joystick or the jog (inner dial) to select a camera from the list, and then press Enter/Shift . Video from the camera is displayed in the selected video pane.

NOTE: A red slash through a camera icon indicates that it is not currently available for display.

To display a specific camera in full-screen mode:

- Navigate to the video pane displaying the desired camera.
- Press the red function key  until the display changes to a single pane.

MOVING THROUGH THE CAMERA SEQUENCE

Although a camera is displayed in a specific video pane, you can quickly cycle through the list of cameras in sequence.

To sequence through the list of cameras:

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

- In the live video mode, use the joystick to select a video pane. A green border surrounds the video pane.

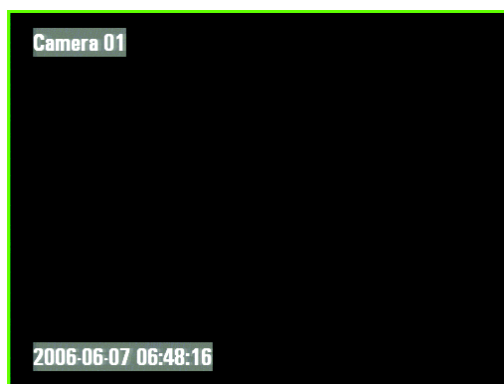




Figure 26. Displaying a Camera in a Video Pane

- On the Panel Keypad, press Plus  to view the next camera in the sequence in the video pane. To view video for the previous camera in the list, press Minus .

WORKING WITH CAMERAS

This section describes how to work with cameras that are attached to the DVR5100 and is organized into the following topics:

- *Adjusting the Iris*, below
- *Adjust the Focus* on page 31
- *Repositioning a Camera With PTZ Capabilities* on page 32
- *Accessing Camera Menus* on page 33

ADJUSTING THE IRIS

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To adjust iris:

1. In the live view mode, use the joystick to select a video pane that is displaying video from a camera whose iris requires adjustment. Refer to *Viewing a Specific Camera* on page 27 for instructions on displaying a camera. The selected pane is highlighted by a green border.



Figure 27. Camera List

2. Press Menu . The Select Camera menu appears.

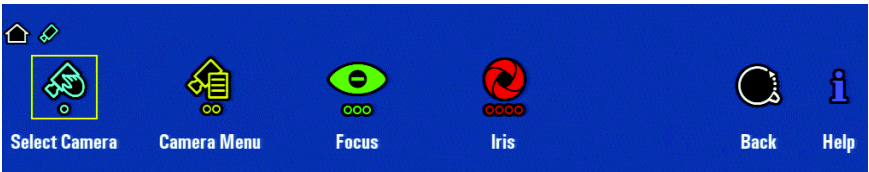


Figure 28. Select Camera Menu

3. Press the red function key  to select the Iris icon. The Iris dialog box appears.

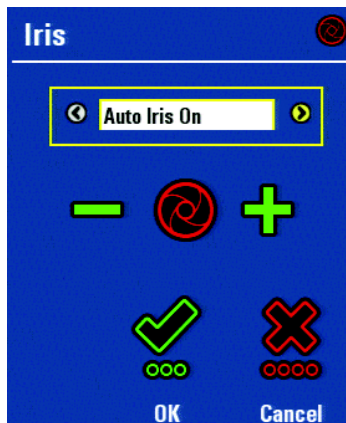




Figure 29. Iris Dialog Box

4. Navigate to the option box. By default, the iris mode is set to Auto Iris On.
5. Turn the jog (inner dial) to set the iris mode to Auto Iris Off.
6. Navigate to the iris $-/+$ controls, and then do one of the following:
 - To open the iris, turn the shuttle  clockwise. As an alternative, press and hold the Plus button  to open the iris until it reaches its limit.

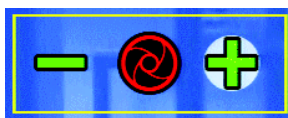


Figure 30. Open Iris Control



- To close the iris, turn the shuttle  counterclockwise. As an alternative, press and hold the Minus button  to close the iris until it reaches its limit.




Figure 31. Close Iris Control

7. Press the green function key  to close the Iris dialog box.

ADJUST THE FOCUS

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To adjust focus:

1. In the live view mode, use the joystick to select a video pane that is displaying video from a camera whose iris requires adjustment. Refer to *Viewing a Specific Camera* on page 27 for instructions on displaying a camera. The selected pane is highlighted by a green border.
2. Press Menu . The Select Camera menu appears.

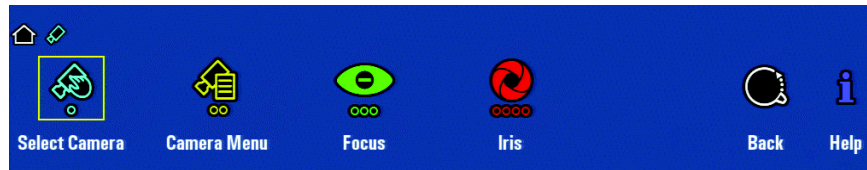



Figure 32. Select Camera Menu

3. Press the red function key  to select the Focus icon. The Focus dialog box appears.

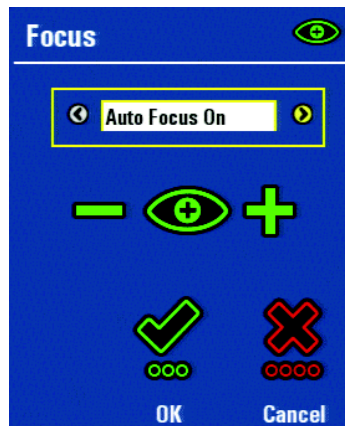


Figure 33. Focus Dialog Box

4. Navigate to the option box. By default, the focus mode is set to Auto Focus On.
5. Turn the jog (inner dial) to set the focus mode to Auto Focus Off.

6. Move to the focus \pm control and do one of the following:





- To focus closer to an object, turn the shuttle (outer dial)  to the right. The plus sign (+) is highlighted by a circle, indicating the direction of the change. As an alternative, press and hold the Plus button  to focus closer.



Figure 34. Focus Closer to An Object

- To focus farther away from an object, turn the shuttle (outer dial)  to the left. The minus sign (-) is highlighted by a circle, indicating the direction of the change. As an alternative, press and hold the Minus button  to focus farther away.

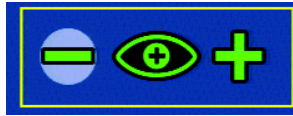


Figure 35. Focus Farther Away From an Object

7. Press  to close the Focus dialog box.

REPOSITIONING A CAMERA WITH PTZ CAPABILITIES

If you select a camera that supports pan, tilt, and zoom operations, you can reposition the camera with the joystick. PTZ cameras can be repositioned to view a wider scene, to view a tighter scene, or to view a scene in a different direction. To enter PTZ mode, the on-screen menus must be turned off. While in PTZ mode, it is not possible to navigate the on-screen menus. A blue border surrounds the video pane when PTZ mode is on. In addition to controlling a PTZ camera manually from the front panel controls, you can reposition the camera based on predefined patterns, presets, and scan operations. Refer to *Using Patterns, Presets, and Scans* on page 41 for more information.

To reposition a camera with the front panel controls:

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.




1. In the live view mode, navigate to a video pane. The selected video pane is surrounded by a green border.
2. On the front panel controls, press Enter/Shift . The border around the video pane changes to blue.



Figure 36. PTZ Mode Indicated by Blue Border

3. Move the joystick left or right to pan to the left or right of the current scene.
4. Move the joystick up or down to tilt the camera up or down from the current scene.
5. Press and hold the Plus  or Minus  buttons to zoom in and zoom out of the scene.

If the camera does not respond to the joystick, verify that the camera protocol is configured correctly. The DVR5100 supports Coaxitron, Extended Coaxitron, Pelco D and Pelco P protocols for cameras that are equipped for PTZ control.



ACCESSING CAMERA MENUS

Many settings for different cameras can be programmed to fit your specific needs. For example, the Spectra III™ Series camera provides menus from which you can adjust language settings, motion sensing, create patterns and presets, and other settings directly from the DVR5100. You can display menus and adjust camera settings from the DVR5100 if your user role has permissions to do so.

WARNING: Among the available menu options are commands to restart or turn off a camera. Restarting or turning off a camera stops any video recording that might be in progress for the camera. Check with your system administrator before you restart or turn off a camera that might be in use by other users on the system.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To access a camera menu:

1. In the live view mode, select a video pane that is displaying a camera for which you want to view its on-screen menu. Refer to *Viewing a Specific Camera* on page 27.
The border of the video pane will be green. If the border is blue, you cannot access the camera menu. Press Enter/Shift  to change the mode from PTZ mode to live view mode.
2. Press Menu . A DVR5100 menu appears.

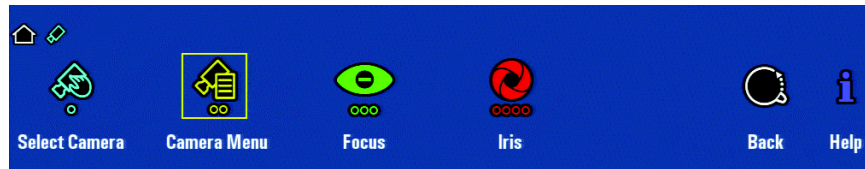


Figure 37. Selecting the Camera Menu

3. Navigate to the Cameras menu from the main menu, and then select the Camera Menu icon. The settings menu for the camera appears. The list of options varies for each camera type. For example, the Figure 38 shows the main menu from a Spectra III Series camera.

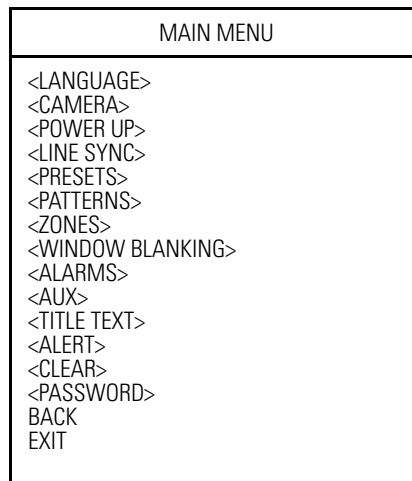





Figure 38. Example of a Camera Settings Menu

4. Navigate the menu as follows:
 - Use the joystick to move through the list of menu options and through the list of settings for each option.
 - Press Enter/Shift  to select or accept an option or a setting. You cannot undo a change once you have pressed this button.
 - To return to a previous menu in the Camera Settings menu, move to the Back command, and then press Enter/Shift .
5. After you have completed modifying camera settings, move to the Exit command, and then press Enter/Shift . The camera menu disappears from the monitor.

ADJUSTING AUDIO

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To adjust the audio level:

1. Select a video pane, and then press and hold Enter/Shift .
2. While holding Enter/Shift , turn the jog (inner dial) to the right to raise the audio level. To lower the audio level, turn the jog (inner dial) to the left.

Responding to Alarms

Each time an alarm occurs, the DVR5100 displays an Alarm Received dialog box, which allows you to respond immediately to the event or elect to have the alarm event snoozed for a specified amount of time. An alarm event must be acknowledged before it will disappear from the screen. Any user with permissions to do so can respond to an alarm event. The alarm message might provide instructions on how to respond to the alarm event. If the alarm event meets certain criteria, an e-mail might be sent to designated staff. To set up automatic e-mail notification, you must create a script to do so, and your system must have a mail server configured. Contact your system administrator to verify that your system is configured to send automatic e-mail messages about alarms.

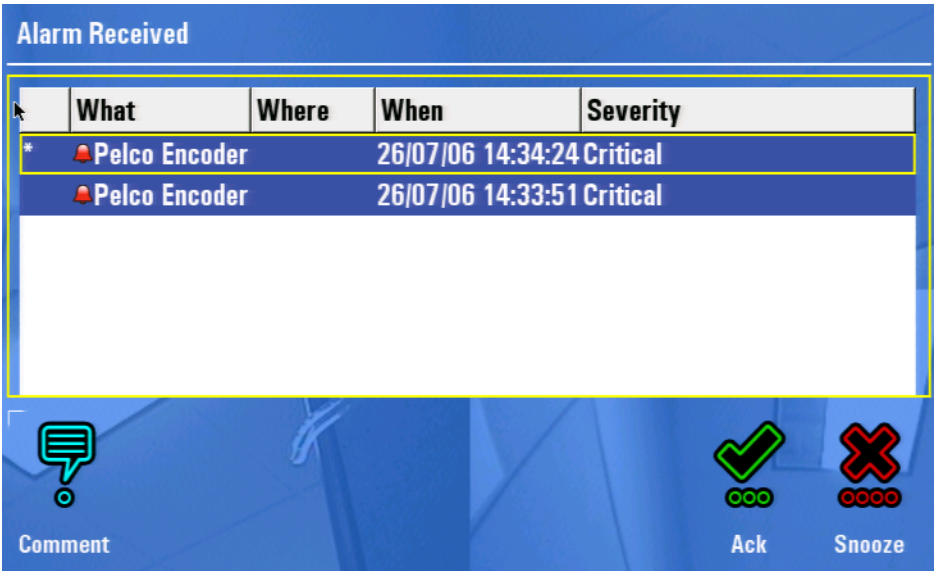



Figure 39. Acknowledging an Alarm

ACKNOWLEDGING AN ALARM EVENT

The DVR5100 provides a message that can instruct you on how to respond to certain alarm events. If there are several alarms displayed on the Alarm Received dialog box (Figure 39), you can acknowledge all alarms at the same time. By default, all new alarms are selected at the same time. Selecting the Ack icon acknowledges all alarms. Note that you must select a single alarm if you want to review its comments. Turn the jog (inner dial) to select a single alarm if you want to review its comments.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To acknowledge an alarm event:

1. After an alarm message appears on the Alarm Received dialog box (Figure 39), press the blue function key  to display the comments associated with the alarm. If necessary, turn the jog (inner dial) to select a single alarm. Instructions appear on how to respond to the alarm.

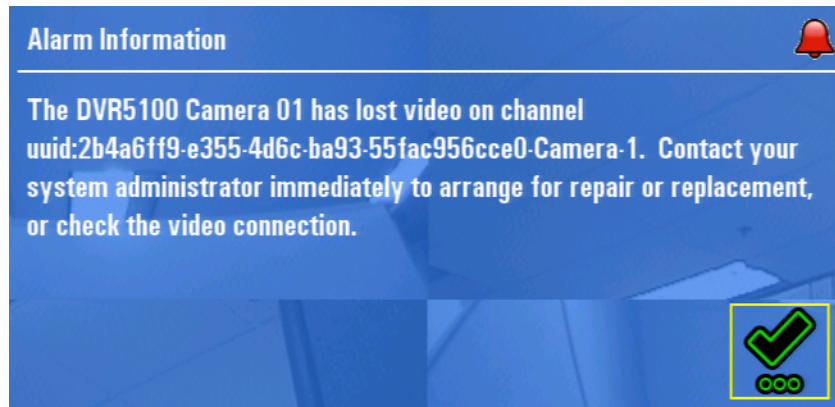











Figure 40. Alarm Information




2. Select the OK icon , and then press Enter/Shift , or press the green function key  to close the comments. The Alarm Received dialog box appears. (Figure 39)
3. Do one of the following:
 - Navigate to the Ack icon , and then press Enter/Shift . The Alarm Received dialog box is closed and the acknowledge action is recorded in the system log. As an alternative, you can press the green function key  to acknowledge the alarm.
 - Navigate to the Snooze icon , and then press Enter/Shift . The alarm will reappear after the snooze time has expired. As an alternative, press the red function key  to snooze the alarm.

REQUESTING A REMINDER FOR AN ALARM EVENT

With the DVR5100 you can postpone responses to an alarm event for a specified time period. Referred to as “snooze,” the alarm is redisplayed after the snooze time expires.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.



To request a reminder for an alarm event:

1. While the Alarm Received dialog box (Figure 39) is displayed, select an alarm.
2. Use the joystick to select the Snooze icon , and then press Enter/Shift , or press the red function key . The Alarm Received dialog box is closed and the snooze action is recorded in the system log. After a delay, the alarm notification reappears with a clock icon indicating that the alarm was previously snoozed.

VIEWING COMMENTS

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To view an alarm message comment:

1. On the Panel Keypad, press the blue function key .
2. An alarm message appears.
3. Review the comments about the alarm, and then press the red function key  when you are done.

Executing Scripts

A script is like a macro but provides much more power and flexibility. Scripts may be used to control almost all system functions and may be combined in almost any order. To create a script you must be logged on to the DVR5100 remote client application. Refer to the operation manual for the remote client application for instructions on creating scripts. The following table describes actions that are supported in scripts.

Table G. Supported DVR5100 Scripts

Action	Has the following effect
Display video	Displays video from the indicated camera.
Start Recording	Starts recording video from the indicated video source.
Run Script	Initiates execution of a remote script.
Wait	Pauses execution of a script for a given number of seconds.
Send Mail	Sends an e-mail message to a given recipient.
Activates Relay	Activates a relay device.
Preset	Moves camera to a specified preset. A preset allows you to direct a PTZ (camera positioning system) on a predetermined location.
Pattern	Runs a specified pattern on a camera. A pattern allows you to program the movements of PTZ-enabled cameras.
Start Loop	Starts a specific sequence of commands within the script.
End Loop	Ends a specific sequence of commands within the script.
Stop Pattern	Stops a pattern.

WORKING WITH SCRIPTS

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To start or stop a script from the menus:

1. From the main menu, select Actions.

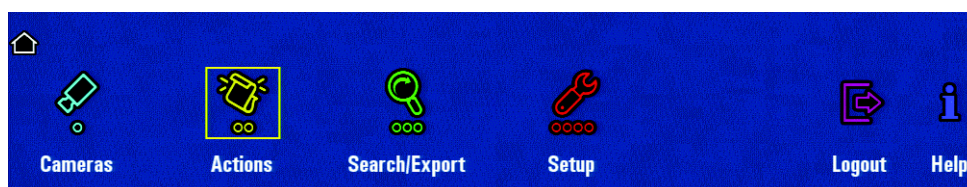


Figure 41. Selecting Actions on DVR5100 Main Menu










2. Select Scripts.



Figure 42. Selecting Scripts on Actions Menu

3. When the Execute Script dialog box appears, turn the jog (inner dial) to scroll through and select a script from the list (Figure 43).

4. Press the buttons on the Panel Keypad as follows:

- To start a script, press the green function key , or use the joystick to navigate to the Execute icon , and then press Enter/Shift .
- To stop a script, press the yellow function key , or use the joystick to navigate to the Halt icon , and then press Enter/Shift . Note that the Halt icon is available only when a script is running.
- To close the dialog box without running a script, press the red function key , or navigate to the Cancel icon , and then press Enter/Shift .

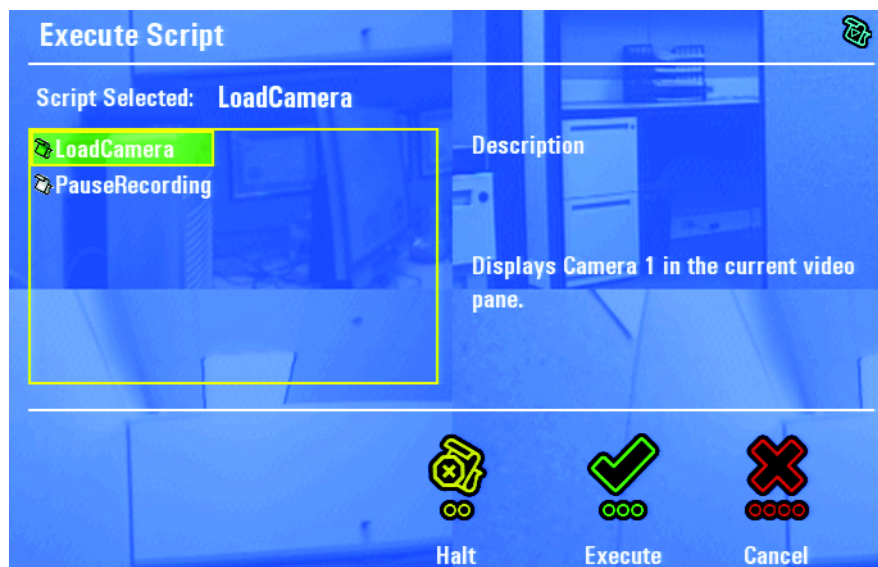


Figure 43. Execute Script Dialog Box

Activating Relays

The DVR5100 may be used to activate relay output manually, connecting DVR5100 devices to other external devices. A relay may be activated for a predetermined period of time (the dwell time) or may remain latched until there is another signal to release the relay.

Users with administrator permissions can configure relays from the Devices tab in the Setup window.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To activate a relay:

1. From the main menu, select Actions. The Actions menu appears.



Figure 44. Actions Menu

2. Navigate to Relays, and then press Enter/Shift . The Activate Relays dialog box appears.



Figure 45. Activating a Relay

3. Turn the jog (inner dial) to select a relay from the list.
4. Navigate to the Activate icon , and then press Enter/Shift . To cancel the selection without activating the relay, navigate to the Cancel icon , and then press Enter/Shift . The Execute Relays dialog box appears. If there are no relays available on your system, the following message appears.

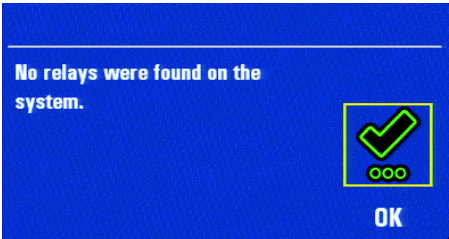


Figure 46. DVR5100 Dialog Box

Using Patterns, Presets, and Scans

With the DVR5100 you can activate patterns, presets, and scans. A pattern is a user-defined, viewable camera path with a beginning and end. The number and duration of patterns varies with different positioning systems. A preset action forces a camera with PTZ capability (pan, tilt, and zoom) to reposition itself on a specific scene, such as a door. A scan action moves a camera across the current scene that it is viewing from a predetermined starting point. For a description of the types of scan actions you can perform, refer to *Activating Scans* on page 43.

Patterns, presets and scans can be activated automatically or manually from the DVR5100. Patterns and presets must be pre-programmed from the DVR5100 Remote Client application. A user must have administrator permissions to program the movements of PTZ cameras and to automate other system activities in response to alarms or other events.

This section describes how to operate the DVR5100 to run patterns, presets, and scans and is organized into the following topics:

- *Activating PTZ Patterns*, below
- *Stopping a Pattern* on page 42
- *Activating Presets* on page 42
- *Activating Scans* on page 43

ACTIVATING PTZ PATTERNS

A pattern is a user-defined, viewable camera path with a beginning and end. The number and duration of patterns varies with different positioning systems.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To activate a pattern:

1. From the main menu, select Actions. The Actions menu appears.



Figure 47. Actions Menu

2. Navigate to PTZ Operations, and then press Enter/Shift (circular arrow icon). The PTZ Operations dialog box appears.




Figure 48. PTZ Operations Dialog Box

3. On the Panel Keypad press (plus icon) or (minus icon) until the pattern number appears in the text field.
4. Press the blue function key (circular arrow icon). The pattern starts. To exit the dialog box without activating the pattern, press the red function key (square with plus icon).

STOPPING A PATTERN

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To stop a pattern:

- 1. Select the video pane that is displaying video from a camera running a PTZ pattern.
- 2. If the border of the selected video pane is green, Press Enter/Shift . The border color changes to blue.
- 3. Move the joystick any direction. The pattern stops.

ACTIVATING PRESETS

A preset action forces a camera with PTZ capability (pan, tilt, and zoom) to reposition itself on a specific scene, such as a door. Preset actions are activated automatically or manually from the DVR5100. A preset action is activated automatically when an alarm occurs that triggers the preset action. For example, an alarm sounds on an exterior door to a building and the preset action is set to refocus a camera on that doorway. A manual activation of a preset occurs when an operator selects a preset command from the Actions menu. For example, an operator is viewing video from a fixed camera in a parking lot when he or she decides to refocus the camera on the doorway to get a better view of someone who is walking toward the door.

A user with administrator-level permissions must program these actions in advance. Preset actions must be programmed using the Remote Client application before they can be activated manually from the DVR5100. In addition to moving the camera to a predetermined scene, a descriptive title can appear on the video pane. The type of camera positioning system determines the number of preset actions that are available.

Your cameras might provide predefined presets. Refer to the documentation for your cameras to determine which predefined presets are available, and then enter their numbers in the instructions below when you need to run them. For example, Pelco cameras use the Preset 95 to display camera menus on a monitor.

To create preset actions, access the menu of the camera for which you want to create a preset action. Refer to *Accessing Camera Menus* on page 33 for more information.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To activate a preset:


- 1. While in live view mode, select a video pane that is displaying video from a camera with PTZ capabilities. The video pane border is green.
- 2. From the main menu, select Actions, and then press Enter/Shift . The Action menu appears.







Figure 49. Scripts Menu

- 3. Select PTZ Operations, and then press Enter/Shift . The PTZ Operations dialog box appears.



Figure 50. PTZ Operations Dialog Box

- On the Panel Keypad press  or  until the preset number appears in the text field, and then press the yellow function key . The camera is moved to the preset location. To cancel your selection without activating the preset, press the red function key .

ACTIVATING SCANS

To scan is to view an area by panning a camera horizontally to the right or left. There are three types of scans available:

- Scan Random:** A random scan occurs when the camera pans in an irregular, unsystematic pattern.
- Scan Frame:** A frame scan occurs when the camera is repositioned for a three-second interval scan followed by a three-second pause.
- Scan Auto:** An auto scan occurs by panning a camera continuously to the left or right.

Your cameras might provide predefined scans. Refer to the documentation for your cameras to determine which predefined scans are available, and then enter their numbers in the instructions below when you need to run them.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To activate scanning:


- While in live view mode, select a video pane that is displaying video from a camera with PTZ capabilities. The video pane border is green.
- From the main menu, select Actions, and then press Enter/Shift . The Action menu appears.







Figure 51. Scripts Menu

- Select PTZ Operations, and then press Enter/Shift . The PTZ Operations dialog box appears.



Figure 52. PTZ Operations Dialog Box


- On the Panel Keypad press  or  until the scan number appears in the text field, and then press the yellow function key . The camera scans according to the actions. To cancel your selection without activating the scan, press the red function key .

Activating Auxiliary Commands (Wiper)

On cameras that are equipped with a wiper, a preset command is available to activate it from the DVR5100. The DVR5100 ignores the command if a camera does not support it.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To activate the wiper command:

1. While in live view mode, select a video pane that is displaying video from a camera with a wiper. The video pane border is green.
2. From the main menu, select Actions, and then press Enter/Shift . The Action menu appears.

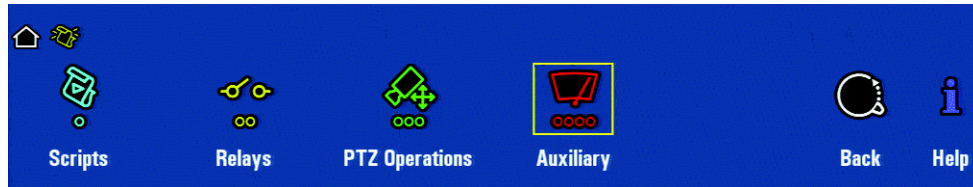


Figure 53. Scripts Menu

3. Select Auxiliary, and then press Enter/Shift .
4. Repeat the command as often as necessary. The command is ignored on cameras that do not have a wiper.

Searching for Video

The DVR5100 offers two options for searching for recorded video:

- **Quick Search:** With Quick Search you can search for video for the currently selected camera.
- **Enhanced Search:** With Enhanced Search you can search for video on multiple cameras and for any available date and time range. An enhanced search can be refined to include only specific events or recording types on specific cameras.

QUICK SEARCH

The Quick Search function provides a simple interface for selecting a time within the past 24 hours of the recorded video you want to view. This section describes how to use the Quick Search feature.

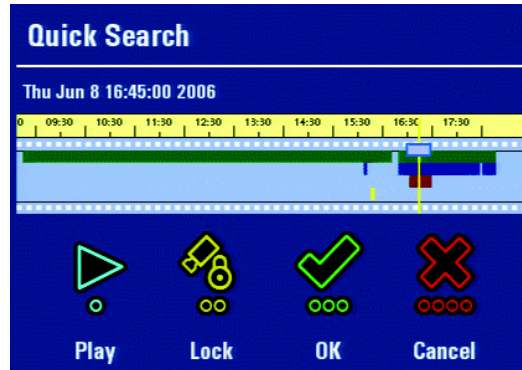


Figure 54. Quick Search Dialog Box





The Quick Search dialog box contains the following commands and features:

- **Timeline:** Units of time increase or decrease between months and days, days and hours, hours and minutes, or minutes and seconds. The Panel Keypad shuttle is used to change units as follows:
 - **Zoom in:** Turn the shuttle clockwise to display a smaller unit of time.
 - **Zoom out:** Turn the shuttle counterclockwise to display a larger unit of time.

Along with stars that indicate a marked event, the graphical indicator for recorded video represents recorded video with four different colored bars:

- **Green:** Continuous recording
- **Red:** Alarm recording
- **Blue:** Motion recording
- **Yellow:** Manual recording

You turn the jog (inner dial) to the right or left to move forward or backward along the timeline.

- **Play**  : Starts playing back the video from the position of the cursor along the timeline. The time and date are displayed above the timeline.
- **Lock**  : Displays the Lock Clip dialog box on which you can specify the date and time for which you want to lock a video clip.
- **OK**  : Accepts the selected date and time. The recorded video clip is displayed in the currently selected video pane.
- **Cancel**  : Rejects the selected date and time. No recorded video clip is displayed in the currently selected video pane.

PERFORMING A QUICK SEARCH

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To perform a quick search for and play back video:

1. In the live view mode, select a video pane that is displaying video from a camera. The video pane border is green.
2. From the main menu, select Search/Export. The Search/Export menu appears.

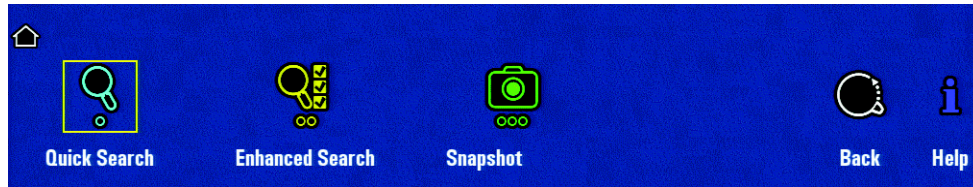









Figure 55. Quick Search Menu

3. Select Quick Search, and then press Enter/Shift , The Quick Search dialog box appears (Figure 54).
4. Turn the jog (inner dial) to select the starting time along the timeline. To change the timeline display, turn the shuttle (outer dial) to zoom in and out on the timeline. Units of time increase or decrease between months and days, days and hours, hours and minutes, or minutes and seconds.
5. Do the following:
 - To play video and keep the Quick Search dialog open, navigate to the Play icon , and then press Enter/Shift .
 - To play video and close the Quick Search dialog, navigate to the OK icon , and then press Enter/Shift .
 - To close the Quick Search dialog, navigate to the Cancel icon , and then press Enter/Shift .

For information about locking video from the Quick Search dialog box, refer to *Locking and Unlocking a Video Clip* on page 52.

ENHANCED SEARCH

The image shows a 'Search' dialog box with a blue background. At the top left is the title 'Search' and a magnifying glass icon. Below the title is a 'Time Range' section. It contains a 'Specify Time Range' button with left and right arrows. To its right are two date/time pickers labeled 'Start' and 'Stop', both displaying 'Thu Jun 8 22:59:55 2006'. Below each picker is a 'Set' button. A yellow rectangle highlights the 'Start' picker and its 'Set' button. Below the 'Time Range' section is a 'Search Type' section with a dropdown menu showing 'All types' and a right arrow. To its right is a 'Camera' section with a dropdown menu showing 'All cameras' and a right arrow. At the bottom right are two buttons: 'Search' with a magnifying glass icon and 'Cancel' with a red X icon.

Figure 56. Search Dialog Box

You can use the Enhanced Search dialog box to search for recorded video based on the following search criteria:

- **Date and time ranges:** Search for video recorded in the following time periods:
 - **Yesterday:** Searches the previous 24-hour period from the current date.
 - **Past 3 Days:** Searches for video recorded in the preceding 3-day period from the current date.
 - **Past 7 Days:** Searches for video recorded in the preceding 7-day period from the current time.
 - **Specify Time Range:** Searches for video recorded during a time range that you specify. Selecting this option displays the Start time dialog box.
- **Types of recorded video:** Search for video recorded based on motion detection or alarms, continuous or manual recordings, and locked video.
 - **All types:** Searches for all types of recorded video including locked, continuous, alarms, motion, and manual.
 - **Multiple types:** Displays the Select Search Type dialog box in which you can select a subset of recorded video types for which to search.
 - **Locked:** Searches only for locked video.
 - **Continuous:** Searches only for video recorded in the continuous mode (default).
 - **Alarms:** Searches only for video recorded in response to an alarm event.
 - **Motion:** Searches only for video recorded in response to a motion event.
 - **Manual:** Searches only for video recorded manually.
- **Specific cameras:** Search for video recorded on all cameras, several cameras, or only a single cameras.
 - **All cameras:** Includes all camera inputs in the search: 4, 8, or 16.
 - **Multiple cameras:** Displays the Select Cameras dialog in which you can select a subset of cameras to included in the search. displays the list of cameras. By default, the list is named Camera 01 to Camera 16 for a 16 channel DVR5100.

PERFORMING AN ENHANCED SEARCH

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To perform an enhanced search:

1. In the live view mode, press  to display the main menu.
2. From the main menu, select Search/Export. The Search/Export menu appears.

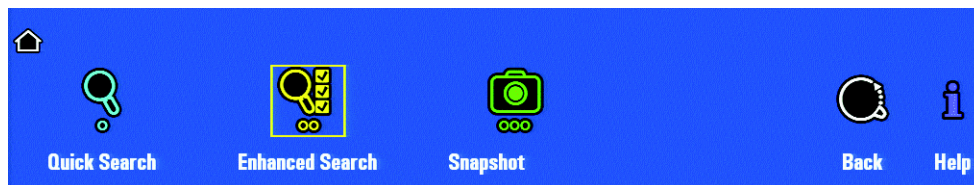


Figure 57. Search/Export Menu


3. Select Enhanced Search, and then press Enter/Shift . The Enhanced Search dialog box opens (Figure 56).
4. In the Search dialog box, navigate to the Time Range field.
5. Turn the jog (inner dial) right or left to select time range. Choices are Yesterday, Past 3 Days, Past 7 Days, and Specify Time Range.
6. If you select Specify Time Range, you must select a date and time range for the search as follows:



Figure 58. Start Time Dialog Box

- a. Navigate to the Start field, and then press Enter/Shift . The Quick Search dialog box appears with a timeline.

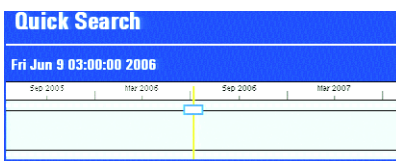






Figure 59. Quick Search Dialog Box

- b. Turn the jog (inner dial) right or left to select a start time along the timeline, and then press Enter/Shift .
- c. Navigate to the Stop field, and then press Enter/Shift . The Quick Search dialog box appears with a timeline.
- d. Turn the jog (inner dial) right or left to select a stop time along the timeline, and then press Enter/Shift .

7. Navigate to the Search field, turn the jog (inner dial) to select a video type for which to search, and then press Enter/Shift . Choices are *All Types*, *Multiple Types*, *Locked*, *Continuous*, *Alarms*, *Motion*, and *Manual*. If you select *Multiple Types*, the Select Search Type dialog box appears.

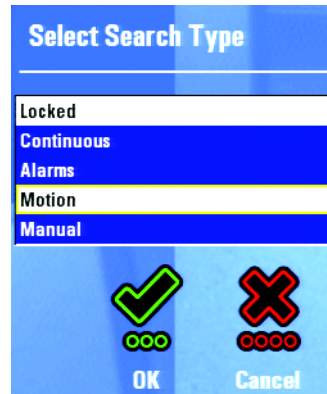


Figure 60. Selecting Multiple Types of Recorded Video











8. Specify the recording types for which you want to search as follows:
- Turn the jog (inner dial) to select a recording type, and then press Enter/Shift .
 - Navigate to the OK icon , and then press Enter/Shift  when your list is complete. To cancel the selection list, navigate to the Cancel icon , and then press Enter/Shift .
9. Navigate to the Camera field, and then select a camera or cameras. Choices are *All Cameras*, *Multiple cameras*, and each individual camera. If you select *Multiple cameras*, the Select Cameras dialog box appears.



Figure 61. Selecting Multiple Cameras

10. Specify the cameras for which you want to search as follows:

- a. Turn the jog (inner dial) to select a camera, and then press Enter/Shift .
- b. Navigate to the OK icon , and then press Enter/Shift  when your list is complete. To cancel the selection list, navigate to the Cancel icon , and then press Enter/Shift .






11. Navigate to the Search icon , and then press Enter/Shift  to start the search. The Enhanced Search dialog displays a list of results along with details about each recording.



Figure 62. Enhanced Search Results

12. Turn the jog (inner dial) to select a recording. Details about the recording appear to the right of the list.

13. Perform any of the following actions for the recording:

- a. To view the video, select Play . For instructions about playing a video recording, refer to *Playing a Video Clip*, below.
- b. To lock the video so that it is not overwritten, select Lock . For instructions about locking video, refer to *Locking and Unlocking a Video Clip* on page 52.
- c. To export the video to an external storage device, select Export . For instructions about exporting video, refer to *Exporting Video* on page 55.
- d. To cancel Enhanced Search, select .
- e. To return to the Enhanced Search dialog and modify the search criteria, turn the shuttle (outer dial) .

PLAYING A VIDEO CLIP

You can play back recorded video after locating it with either a quick search or enhanced search. Follow the instructions below to play video from either search function.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To play a video clip located during a quick search:

1. Perform a Quick Search. Refer to *Performing a Quick Search* on page 46. The Quick Search dialog box appears.

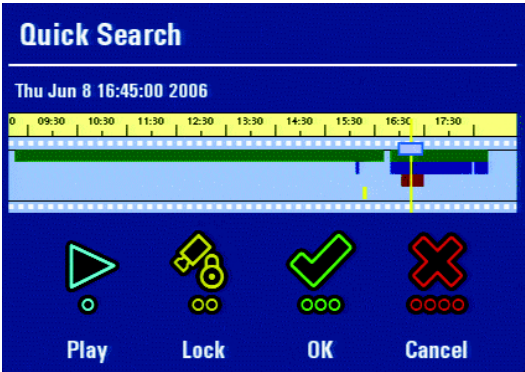



Figure 63. Playing Recorded Video From the Quick Search Dialog


2. Turn the jog (inner dial) right or left to select a video clip, and then select Play . The video plays in the currently selected video pane.

To play a video clip located during an enhanced search:

1. Perform an enhanced search. Refer to *Performing an Enhanced Search* on page 48. The Enhanced Search dialog box appears with a list of video clips.



Figure 64. Enhanced Search Dialog Box

2. Turn the jog (inner dial) right or left to select a video clip, and then select Play . The video clip is displayed in the currently selected video pane.

PLAYBACK SPEEDS FOR RECORDED VIDEO

While playing back recorded video you can play the video at several speeds in either fast forward or fast reverse direction.

To change the playback speed for recorded video:

1. Select a video pane that is displaying recorded video.
2. Turn the shuttle (outer dial) clockwise to play the video fast forward. The farther you turn the shuttle, the faster the video plays. You can play the video at 2, 4, 15, 60, or 300 times faster than normal speed.
3. Turn the shuttle (outer dial) counterclockwise to play the video fast reverse. The farther you turn the shuttle, the faster the video plays backwards. You can play the video backwards at 2, 4, 15, 60, or 300 times faster than normal speed.
4. To return to normal forward speed, release the shuttle.


LOCKING AND UNLOCKING A VIDEO CLIP

You can lock an entire video clip from the Enhanced Search screen. From the Quick Search you can lock an entire video clip or only a portion of a clip. Locking a video clips protects them from being erased as the hard disk is overwritten. A locked video clip remains on the hard disk until it is unlocked or until a time specified in the DVR setup information on the Device tab. Your system must be configured to delete locked video or it will remain on the hard disk until you unlock it. Contact your system administrator if you need to enable this setting.

If you lock two video clips that would form a single continuous video clip, they are displayed as a single video clip on the Enhanced Search screen results.

To lock a video clip from a quick search:

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

1. Perform a Quick Search. Refer to *Performing a Quick Search* on page 46.
2. Turn the jog (inner dial) to select a video clip along the timeline, and then select Lock .
3. The Lock Clip dialog box appears.

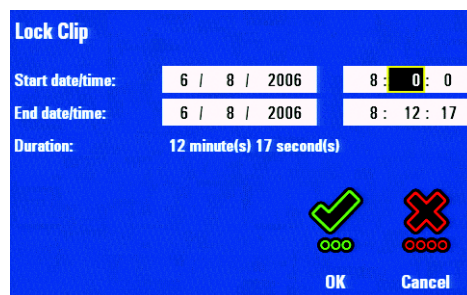





Figure 65. Quick Search Lock Clip Dialog Box

4. Select a start date and time and an end date and time for the video clip that you want to lock. As you update this information, the duration is updated to show how much video to lock.
5. Select OK . The video clip is locked. To cancel your selection and close the search dialog, select Cancel . To unlock the video clip, refer to the instructions in *To unlock a video clip*, below.

To lock a video clip from an enhanced search:

1. Perform an enhanced search. Refer to *Performing an Enhanced Search* on page 48. The Enhanced Search dialog box appears (Figure 64).
2. Turn the jog (inner dial) to select a video clip, and then select Lock . The video remains locked indefinitely.

To unlock a video clip:

You can unlock any video clip that has been locked by first performing an enhanced search for locked video.

1. Perform an enhanced search making sure to include locked video in the Search type. Refer to *Performing an Enhanced Search* on page 48.

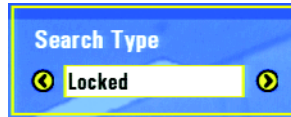


Figure 66. Searching for Locked Video

2. Turn the jog (inner dial) to select a locked video clip, and then select Unlock




MARKING AN EVENT

You can mark an event on a video clip while you are playing back recorded video. Marking an event on a video clip makes it easier to locate later on. Unlike locked video, marked events are overwritten according to the disk overwrite settings for the DVR5100. Follow the instructions below to mark an event.

To mark an event:

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

1. Play back recorded video, and then select the video pane. The border around the video pane is yellow.
2. On the Control Pad, press . The Quick Export menu appears.

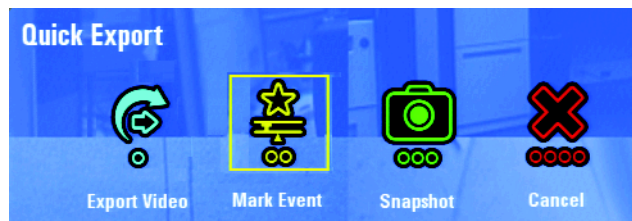




Figure 67. Marking an Event

3. Press  to mark the event. A yellow star appears in the timeline for the selected camera the next time you view the Quick Search dialog box. (Figure 68)
4. Select Cancel  to close the Quick Export dialog box.

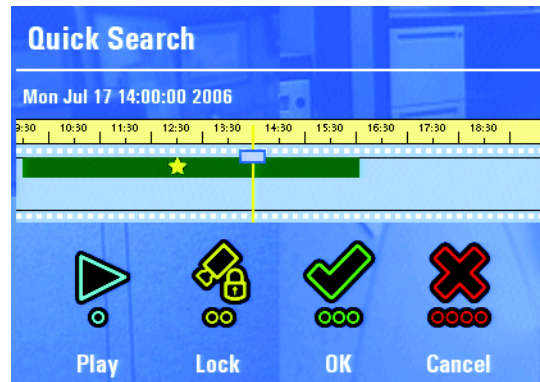


Figure 68. Marked Events on the Quick Search Dialog Box


Exporting Video

The DVR5100 allows you to export video as QuickTime MPEG-4 or Pelco video format (*.pef) and save the file to a USB device, CD-ROM, or DVD. The default export format is QuickTime MPEG-4, but this may be changed during the export process on the Enhanced Search dialog box. Exported video clips can be quite large. Snapshots may be exported to a USB device. Be sure that the media to which you are exporting the video or snapshot is attached to the DVR5100 or to an optional KBD5000 and that it contains sufficient storage space for the exported video or snapshot before you start to export it.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

There are two ways to export video. You can export the current video clip that you are viewing or you can search for and then export video from the Enhanced Search screen.

To export the currently selected video clip:

1. Select a video pane that is displaying recorded video. The border of the video pane is yellow.
2. From the control pad, press the blue function key . The Quick Export screen appears.

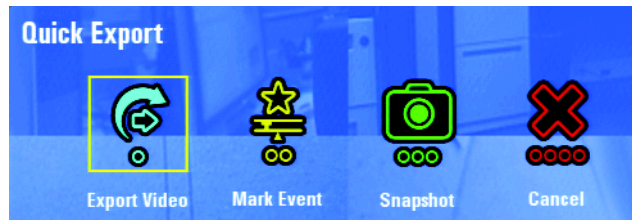


Figure 69. Quick Export Screen

3. Select one of the following options:
 - **Export Video:** Select this option to export the entire video clip in the default format. The Export Video Clip screen appears. Continue with the next step.
 - **Mark Event:** Select this option to mark a portion of the video clip for future reference, and then select Cancel.
 - **Snapshot:** Select this option to export a single frame image from the video clip, and then select Cancel. You must place a USB memory key in one of the USB ports on the DVR5100 before you select this option.
 - **Cancel:** Select this option to close the Quick Export screen without exporting any video.



Figure 70. Export Video Clip Screen

4. Navigate to the export destination, and then select an option. You can export video to a CD, DVD, or USB memory key. The media must have sufficient space to store the entire video clip. If you are unsure if the video clip has sufficient space, follow the instructions at Step 7 to export only a portion of the video clip.
5. Select the Begin Export command to export the entire video clip. A message appears at the bottom of the monitor while the DVR5100 exports the video clip. After the video is exported, the message disappears, and you are returned to the Export Video Clip screen.



Figure 71. Exporting Video to a CD or DVD



6. Select Cancel  to close the screen.
7. As an alternative, you can set up a start time and end time for the portion of video that you want to export as follows:
 - Select the Start Time or End Time commands on the Export Video Clip screen. On the Date Time Range screen, use the jog (inner dial) to select a different start or end time for the exported video clip.
 - Use the joystick to navigate to a segment of a date or time field, and then turn the jog (inner dial) to change date or time.
 - Select OK  to save the changes and exit the Date Time Range screen.



Figure 72. Date Time Range Screen

To export a video clip from the Enhanced Search screen:

1. Perform an Enhanced Search. The Enhanced Search dialog box appears. For information about performing an enhanced search, refer to *Performing an Enhanced Search* on page 48.

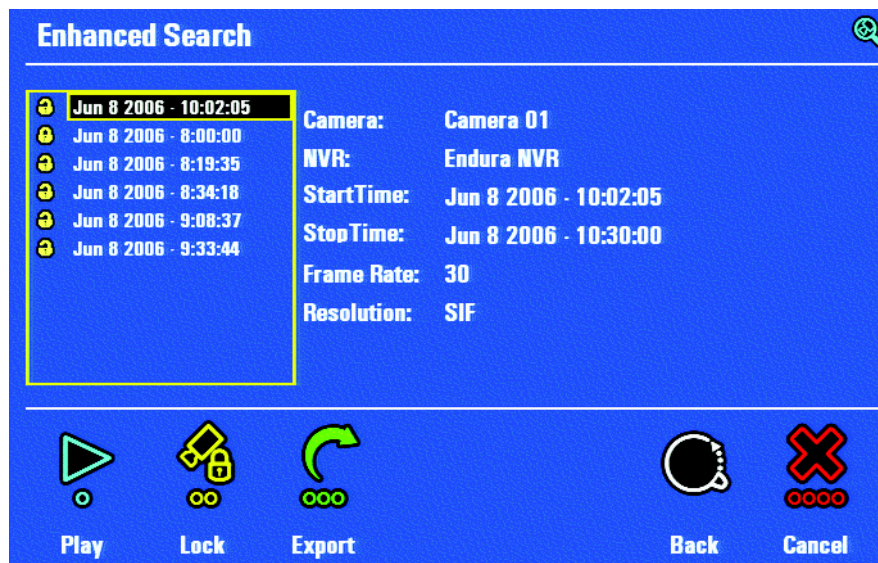



Figure 73. Enhanced Search Dialog Box

2. In the search results list box, select a video clip, and then select Export . The Export Selected Clip dialog box appears.

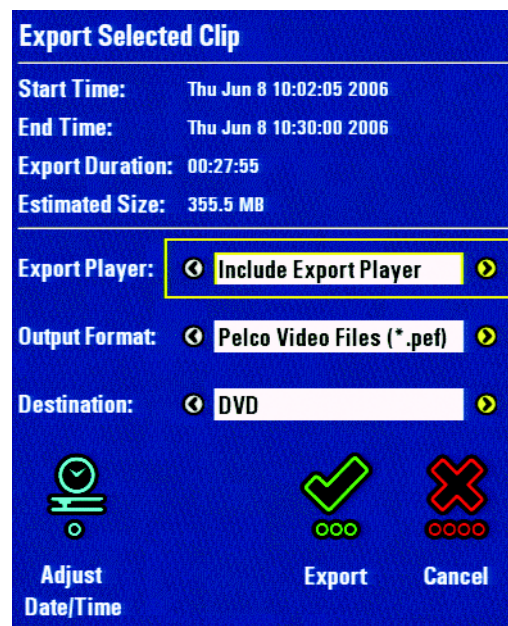




Figure 74. Export Selected Clip Dialog Box

3. Modify the export settings as follows:
 - a. For Export Player, select whether or not you include the export player with the video clip. If you choose Pelco Video Files for the output format, including the export player will ensure that others can view the video from any computer.
 - b. For Output Format, select the file type that you used to export the video. Choices are: Pelco Video Files (*.pef) or Quick Time MPEG-4 Files.
 - c. For Destination, select the media to which the video will be exported. Choices are DVD or USB drive.

4. (Optional) To adjust the date and time, press the blue function key  on the Panel Keypad. The Date Time Range dialog opens where you can revise and set the date and time for the exported video.
5. When all of the settings are correct, select Export  . The export process begins and the progress appears on the monitor.

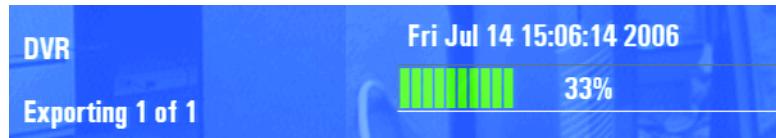


Figure 75. Export Message Dialog Box


You can review exported video on any computer that contains a compatible media player. To review video that is exported as a Pelco Video File (.pef), you must use the Endura Player. This media player is installed on any computer on which the DVR5100 remote client application is installed. For instructions on using the Endura Player, refer to the operation manual or online help for the DVR5100 remote client application.

Capturing a Snapshot (Still Image)

All snapshots are saved in a default folder called images which is created automatically on a USB device. You must attach a USB device to the DVR5100 before you start to capture a snapshot. If a USB device is not attached to the unit when you start to capture the snapshot, an error message appears and the snapshot is not saved.

NOTE: The instructions in this manual refer to the DVR5100 Control Pad. Refer to *Navigating Through Menus with the KBD5000 Keyboard* on page 4 and *Navigating Through Menus with a PC Keyboard and Mouse* on page 6 for alternate keystrokes if you are using either of these devices.

To capture a snapshot:

1. Attach a USB device to the unit in any of the USB ports.
2. While in live view mode, select a video pane that is displaying video from which you want to capture a snapshot. The video pane border is green. You can also capture a snapshot while you are viewing recorded video.
3. Press the blue function key  to display the Quick Export screen.

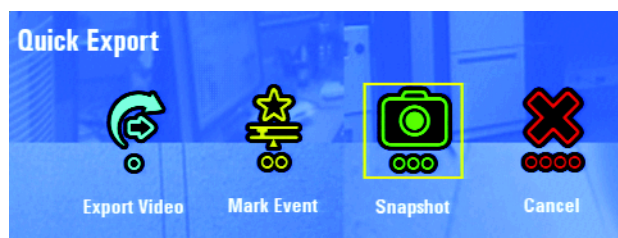



Figure 76. Selecting Snapshot From the Quick Export Dialog Box

4. Select Snapshot. A snapshot is saved to the USB memory key. Repeat this step as many times as necessary.
5. Select Cancel  to close the Quick Export screen.

As an alternative, you can use the Search/Export menu from the main menu to capture a snapshot. On the Search/Export menu, select Snapshot. The caption under the Snapshot icon on the menu is updated to show the number of snapshots that you have taken. (Figure 77.)

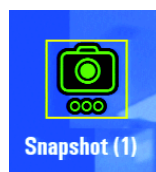


Figure 77. Capturing a Snapshot

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800)6289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699


If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933

 **Green** The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.

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